

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,384,438 B1
APPLICATION NO. : 09/618876
DATED : June 10, 2008
INVENTOR(S) : Anatoly Z. Rosenflanz

Page 1 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1

Line 1, delete " $\text{Al}_2\text{O}_3\text{-Y}_2\text{O}_3\text{-ZrO}_2$ " and insert -- $\text{Al}_2\text{O}_3\text{-Y}_2\text{O}_3\text{-ZrO}_2$ --, therefor.
Line 41, delete "(al.)(also)" and insert -- al.)) (also --, therefor.

Column 2

Line 9, delete "(Larmnie)," and insert -- (Larmie), --, therefor.
Line 10, delete "(Larmnie)," and insert -- (Larmie), --, therefor.
Line 44, delete "stones)." and insert -- stones. --, therefor.
Line 55, delete "4,898,587." and insert -- 4,898,587 --, therefor.

Column 3

Line 13, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$, --, therefor.
Line 15, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$)," and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$), --, therefor.
Line 16, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$, --, therefor.
Line 18, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$, --, therefor.
Line 20, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$, --, therefor.
Line 21, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$ --, therefor.
Line 28, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$ --, therefor.
Line 34, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$ --, therefor.
Line 51, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 56, delete " $\text{Al}_2\text{O}_3\text{.Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\text{·Y}_2\text{O}_3$ --, therefor.
Line 58, delete " $\text{Y}_3\text{Al}_{5012}$ " and insert -- $\text{Y}_3\text{Al}_5\text{O}_{12}$ --, therefor.
Line 59, delete " $\text{Al}_2\text{O}_3\text{.rare}$ " and insert -- $\text{Al}_2\text{O}_3\text{·rare}$ --, therefor.
Line 62, delete " $\text{Dy}_3\text{Al}_{5012}$ " and insert -- $\text{Dy}_3\text{Al}_5\text{O}_{12}$ --, therefor.
Line 64, delete " Dy_{203} ," and insert -- Dy_2O_3 , --, therefor.
Line 64, delete " Ho_2O_3 ," and insert -- HO_2O_3 , --, therefor.

Column 5

Line 45, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 46, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 49, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 50, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 52, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 53, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 56, before "oxide" delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 56, after "complex" delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 58, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 59, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.
Line 65, delete " $\text{Al}_2\text{O}_3\text{.metal}$ " and insert -- $\text{Al}_2\text{O}_3\text{·metal}$ --, therefor.

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Page 2 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6

Line 1, before "oxide" delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 1, after "complex" delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 4, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 5, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 7, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 9, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 11, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 13, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 15, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 17, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 44, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 47, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 50, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$." and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.

Column 7

Line 7, before "oxide" delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 7, after "complex" delete " $\text{Y}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Y}_2\text{O}_3\cdot\text{metal}$ --, therefor.

Column 8

Line 17, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 18, after " ZrO_2 " insert -- phase, the --.
Line 19, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 22, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 58, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.

Column 9

Line 2, delete " $\text{Y}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Y}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 10, delete "hafnia." and insert -- hafnia. --, therefor.
Line 63, delete "other.than" and insert -- other than --, therefor.

Column 10

Line 45, before "No. 3,891,408" delete "Pat," and insert -- Pat. --, therefor.
Line 45, after "U.S." delete "Pat," and insert -- Pat. --, therefor.
Line 46, before "No. 4,070,796" delete "Pat," and insert -- Pat. --, therefor.
Line 46, after "U.S." delete "Pat," and insert -- Pat. --, therefor.
Line 47, after "U.S." delete "Pat," and insert -- Pat. --, therefor.
Line 48, before "No. 4,457,767" delete "Pat," and insert -- Pat. --, therefor.
Line 48, after "U.S." delete "Pat," and insert -- Pat. --, therefor.

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Page 3 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 53, after "include" delete "are" and insert -- arc --, therefor.
Line 53, after "furnace," delete "are" and insert -- arc --, therefor.
Line 54, delete "are" and insert -- arc --, therefor.
Line 56, delete "are"," and insert -- arc", --, therefor.

Column 11

Line 54, delete "are" and insert -- arc --, therefor.

Column 12

Line 39, delete "Pat," and insert -- Pat. --, therefor.
Line 40, delete "Pat," and insert -- Pat. --, therefor.
Line 41, before "No. 4,194,887" delete "Pat," and insert -- Pat. --, therefor.
Line 41, after "(Ueltz et al.), U.S." delete "Pat," and insert -- Pat. --, therefor.
Line 42, delete "Pat," and insert -- Pat. --, therefor.
Line 43, delete "Pat," and insert -- Pat. --, therefor.

Column 14

Line 3, delete "JIs220," and insert -- JIS220, --, therefor.

Column 17

Line 48, delete "lonta" and insert -- Ionta --, therefor.
Line 57, delete "c," and insert -- α,β --, therefor.

Column 18

Line 33, delete "1 100°" and insert -- 1100° --, therefor.

Column 19

Line 12, delete "tetrachloronaphtalene," and insert -- tetrachloronaphthalene, --, therefor.
Line 16, delete "tetrafluoraboate," and insert -- tetrafluoraborate, --, therefor.
Line 67, delete "(Larmnie)," and insert -- (Larmie), --, therefor.

Column 20

Line 37, delete "example,." and insert -- example, --, therefor.

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Page 4 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 22

Line 22, delete "are" and insert -- arc --, therefor.
Line 28, delete "are" and insert -- arc --, therefor.
Line 29, delete "are" and insert -- arc --, therefor.
Line 33, delete "are" and insert -- arc --, therefor.
Line 47, delete "EL" and insert -- IL --, therefor.

Column 24

Line 49, delete "vol" and insert -- vol. --, therefor.

Column 27

Line 24, delete "1 micrometer." and insert -- 2 micrometers. --, therefor.
Line 60, delete "Was" and insert -- was --, therefor.

Column 31

Line 51, delete "icolonies" and insert -- colonies --, therefor.
Line 56, delete "αc-" and insert -- α- --, therefor.

Column 32

Line 28, in Claim 1, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$." and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 29, in Claim 1, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$." and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 30, in Claim 2, after "1" insert -- wherein --.
Line 58, in Claim 9, delete " Al_2O_3 .rare" and insert -- Al_2O_3 .rare --, therefor.
Line 63, in Claim 10, delete " Al_2O_3 .metal" and insert -- Al_2O_3 .metal --, therefor.

Column 33

Line 2, in Claim 12, delete "ar" and insert -- at --, therefor.
Line 3, in Claim 12, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ or" and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ or --, therefor.
Line 4, in Claim 12, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 17, in Claim 13, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 18, in Claim 13, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 27, in Claim 13, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 28, in Claim 13, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 37, in Claim 14, delete "eutectic" and insert -- eutectic --, therefor.
Line 40, in Claim 14, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 41, in Claim 14, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 51, in Claim 14, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 52, in Claim 14, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 65, in Claim 15, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.

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Page 5 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 66, in Claim 15, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 67, in Claim 15, after "fused" insert -- , --.

Column 34

Line 8, in Claim 15, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 9, in Claim 15, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 18, in Claim 17, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 36, in Claim 21, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 43, in Claim 23, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 44, in Claim 23, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 62, in Claim 27, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.

Column 35

Line 8, in Claim 29, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 25, in Claim 33, after "comprise" delete "comprises".
Line 28, in Claim 33, delete " $\text{Al}_2\text{O}_3\cdot\text{metal}$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{metal}$ --, therefor.
Line 42, in Claim 37, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 43, in Claim 37, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 67, in Claim 41, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.

Column 36

Line 3, in Claim 42, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 4, in Claim 42, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 9, in Claim 43, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 31, in Claim 44, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 32, in Claim 44, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 43, in Claim 48, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 46, in Claim 49, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 47, in Claim 49, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 53, in Claim 50, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.

Column 37

Line 1, in Claim 52, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 2, in Claim 52, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 14, in Claim 56, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 17, in Claim 57, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 18, in Claim 57, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 26, in Claim 58, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.
Line 37, in Claim 60, delete "reselective" and insert -- respective --, therefor.

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Page 6 of 6

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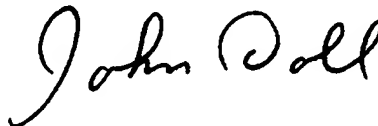
Line 41, in Claim 60, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 42, in Claim 60, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$;" and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$; --, therefor.
Line 45, in Claim 60, delete "fired" and insert -- fused --, therefor.
Line 51, in Claim 61, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$. --, therefor.
Line 54, in Claim 62, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 55, in Claim 62, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$. --, therefor.
Line 64, in Claim 63, delete "eutectic" and insert -- eutectic --, therefor.
Line 65, in Claim 63, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ " and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$ --, therefor.

Column 38

Line 6, in Claim 64, before "is eutectic" insert -- further comprises
crystalline Al_2O_3 such that said eutectic --.
Line 7, in Claim 64, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$. --, therefor.
Line 10, in Claim 65, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$, --, therefor.
Line 11, in Claim 65, delete " $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$," and insert -- $\text{Al}_2\text{O}_3\cdot\text{Y}_2\text{O}_3$. --, therefor.
Line 28, in Claim 68, delete "JS8000," and insert -- JIS8000, --, therefor.
Line 43, in Claim 71, delete "JIS100," and insert -- JIS1000, --, therefor.
Line 64, in Claim 80, delete "steel,tool steel," and insert -- steel tool, steel, --, therefor.

Signed and Sealed this

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Acting Director of the United States Patent and Trademark Office